# Ultrasonic Thickness Gauges

# TI-45NA/45BA/45CA

ISO9001
JQA0950


## Options

**Attachment for measuring pipes (Equipment for standard probe)**

* Picture :Attachment with standard probe







**Probe for narrow and small measuring points**

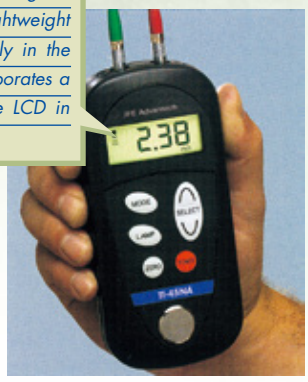
Probe type 10Z6NDT-A can work with only TI-45CA

**The new Ultrasonic Wall Thickness Gauges TI-45NA, TI-45BA & TI-45CA accurately measure wall thickness of all metals, ceramics, glass and most rigid plastics**

## Features

- Resolution of 0.01mm
- Extremely compact & lightweight
- Switch-selectable units - mm or inches
- Built-in calibration test plate
- Quick display update with last reading retained on the display
- Display symbols alert user to poor coupling and low battery conditions

*The attractive, ergonomic housing design is extremely compact, lightweight and rugged. It fits comfortably in the palm of your hand and incorporates a back light that illuminates the LCD in poorly lit areas.*

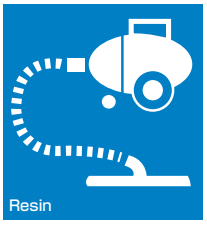


# Ultrasonic Thickness Gauges
# TI-45NA/TI-45BA/TI-45CA

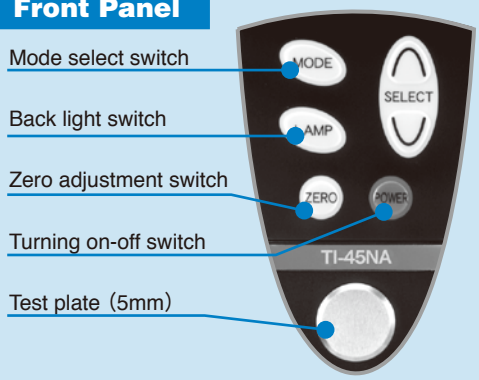
- **Applicable to measure wall thickness and state of corrosion of tanks, pipings, hull plate of ships, and structures.**
- **Also applicable to product inspection of various materials.**
  **Metals : steel, cast steel, aluminium, copper, brass, titanium,etc.**
  **Non-metallic materials : glass, hard plastics(except acrylic), etc.**






## Front Panel




## Velocity table

| Materials | CL (m/s) |
|---|---|
| Steel | 5920 |
| SUS 304 | 5790 |
| Glass | 5570 |
| Copper | 4700 |
| Zinc | 4170 |

## TI-45 series Complete Kit

The TI-45 series is supplied as a complete kit with the gauge and wrist strap, probe and cable assembly, 1 bottle of coupling fluid, battery and instruction manual - all supplied in a fitted, hard plastic carrying case.

| Specifications | TI-45NA | TI-45BA | TI-45CA |
|---|---|---|---|
| Measuring range in steel & pipe dia | 1.00—199.99mm<br>φ27.2 × thickness 1.50mm or more | 0.40—15.00mm<br>φ10.5 × thickness 1.50mm or more | 0.50—19.00mm<br>φ10.5 × thickness 0.8mm or more |
| Resolution accuracy*1 | ±0.05mm or ±0.2%rdg *2 | ±0.03mm | ±0.03mm |
| Probe Diameter (Contact surface Diameter) | 5Z10NDT-M (5MHz)<br>φ13.0(φ11.5)mm | 10Z10NDT-B (10MHz)<br>φ13.0(φ11.5)mm | 10Z6NDT-A (10MHz)<br>φ7.5(φ6.5)mm |
| Display | 4 1/2 - digit LCD display, light with push button illumination | | |
| Display resolution | 0.01mm | | |
| Velocity range | 1 000m/s to 12 000m/s | | |
| Cable | 1m long cable with locking, quick removable connections | | |
| Battery | One AA battery | | |
| Calibration plate | Built-in test piece | | |
| Size | 69(W)× 144(H)× 30(D) (mm) | | |
| Weight | Gauge:150g ± 10g, Probe type 5Z10NDT-M:50g ± 10g, Probe type 10Z10NDT-B:50g ± 10g, Probe type 10Z6NDT-A:35g ± 10g | | |
| Temparature | -5℃ to 50℃(Ambient･Materials) | | |
| Warranty | Gauge:1 year, Probe:6 months | | |

*1 in case of steel measurement
*2 "rdg" means abbreviation of "reading"

## Opiton

| | |
|---|---|
| Attachment for measuring pipes and tubes | TI-P01A |
| Couplant(coupling fluid) | TI-C01 |

## PRECAUTIONS

- The probe surface is fabricated from acrylic resin and care should be placed down for measurements and lifted vertically when complete. Do not slide on surfaces.
- Do not use these gauges where material temperatures exceed 60℃(140°F)as the probe will be damaged. Use the High Temperature Thickness Gauge for these applications.
- Keep the gauge free of dust(especially metal powders, carbon, etc.)as they will damage the PC Board. Use a damp cloth to clean the gauge after use. DO NOT USE CHEMICAL SOLVENTS OF ANY KIND.

*Specifications may be changed without notice due to proceeding improvements.